AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application.

Listing of Claims:

- 1. (Currently Amended) A method of determining the prognosis for a patient diagnosed with Alzheimer's disease (AD), neurofibromatosis, Huntington's disease, depression, amyotrophic lateral sclerosis, multiple sclerosis, stroke, Parkinson's disease, multiple infarcts dementia, a prion disease, a pathology of the developing nervous system, a pathology of the aging nervous system, an infection of the nervous system, a dietary deficiency, or a cardiovascular injury, said method comprising,
 - a) identifying a patient already diagnosed with said disease;
- b) determining the *apoE* allele load of said patient by genotyping or phenotyping, said phenotyping including characterizing ApoE protein isoform, wherein the presence of at least one *apoE4* allele or at least one ApoE4 protein isoform is indicative of a poor patient outcome.
 - 2. (Cancelled)
- 3. (Previously Presented) The method of claim 1, wherein said method further comprises obtaining a patient profile.
 - 4. (Cancelled)
- 5. (Previously Presented) The method of claim 1, wherein said prion disease is Creutzfeldt-Jakob disease.

- 6. (Previously Presented) The method of claim 1, wherein said dietary deficiency is a congenital defect in amino acid metabolism.
- 7. (Original) The method of claim 6, wherein the defect is selected for the group consisting of arginosuccinic aciduria, cystathionuria, histidinaemia, homocystinuria, hyperammonaemia, phenylketonuria, and tyrosinanaemia.
- 8. (Previously Presented) The method of claim 1, wherein said patient is diagnosed with fragile X syndrome.
 - 9. (Cancelled)
- 10. (Previously Presented) The method of claim 1, wherein said disease is Alzheimer's disease.
- 11. (Previously Presented) The method of claim 3, wherein said method further comprises a determination of said patient's sex.
- 12. (Previously Presented) The method of claim 3, wherein said method further comprises a determination of the genotype of said patient.

- 13. (Original) The method of claim 12, wherein said genotype is the presentlin genotype.
- 14. (Original) The method of claim 12, wherein said genotype is the apolipoprotein C1 genotype.

15-20 (Cancelled)